

ABSTRACT OF THE DISCLOSURE

A magnetic bearing device comprises a pair of electromagnets holding a rotary body at opposite sides thereof in the direction of each of control axes, a
5 detector for detecting the position of the rotary body, and an electromagnet controller having an integral operation unit for controlling the electromagnets based on the result of detection of the position. The electromagnet controller sets as a target levitated
10 position of the rotary body the position of the rotary body corresponding to the median of an integral output of the integral operation unit when the rotary body is magnetically levitated in the vicinity of one of limit positions in the direction of the control axis
15 determined by protective bearings and an integral output of the unit when the rotary body is magnetically levitated in the vicinity of the other limit position.

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